ADDENDUM NO. 3

to

SPECIFICATIONS, CONTRACT DOCUMENTS AND DRAWINGS

for

THE CONSTRUCTION OF FY 15/16 CITY OF SANTA FE WATER DIVISION HOSPITAL TANK REPLACEMENT PROJECT CIP # 3039C

Bid Package Published March 9th, 2016

Owner:

City of Santa Fe

Purchasing Office 2651 Siringo Road – Building H Santa Fe, NM 87505

Engineer of Record:

Souder, Miller & Associates

2904 Rodeo Park Drive East, Building 100 Santa Fe, NM 87505

All provisions of the contract documents not in conflict with Addendum No. 3 shall remain in full force. Receipt of this Addendum shall be acknowledged on the Bid Form.

Addendum No. 3

To Contract Documents for the Construction of FY 15/16 CITY OF SANTA FE WATER DIVISION HOSPITAL TANK REPLACEMENT PROJECT CIP # 3039C City of Santa Fe

I. Change regarding Bid Form.

• The Bid Form (Section 00300) in the RFB has been revised and is hereby replaced with the attached Bid Form. Complete and submit the attached instead of the Bid Form included with the RFB.

II. Change regarding Technical Specification Section 01 22 00 (Measurement and Payment).

• The Technical Specification Section 01 22 00 (Measurement and Payment) has been revised and is hereby replaced with the attached Technical Specification Section 01 22 00 (Measurement and Payment).

III. Change to Sheet #G-4 of the City of Santa Fe Water Division Hospital Tank Replacement Project.

• Sheet 3G-4 (Summary of Quantities) has been revised and is hereby replaced with the attached sheet.

FIXED UNIT PRICE BID SCHEDULE REVISED VIA ADDENDUM NO. 3

Note: Gross receipts tax not included.

No.	Code	Description	Unit	Est. Qty.	Unit Price	Total Price
Gener	al		•			1
1	SMA	Mobilization	LS	1		
2	DOT-603	SWPPP	LS	1		
3	SMA	Traffic Control	LS	1		
4	SMA	Geotechnical Under Removed Tank	LS	1		
5	SMA	Testing Allowance	Allow.	1	\$ 20,000.00	\$ 20,000.00
6	SMA	Construction Staking	LS	1		
7	SMA	NMDOT Temporary Driveway Access Permit	LS	1		
8	SMA	Tank Disinfection	LS	1		
Demo	lition					1
9	SMA	Existing Tank Demolition	LS	1		
10	SMA	Tank Excavation	CY	18,500		
11	SMA	Remove / Salvage Chain Link Fence	LF	1,172		
12	SMA	Remove Existing Valve Vault and Manhole	LS	1		
13	SMA	Remove Overflow and Inlet/Outlet Line	LF	115		
14	SMA	Remove / Salvage Riprap	CY	36		
15	SMA	Remove Existing Barbed Wire Fence	LF	537		
16	SMA	Remove Existing Curb & Gutter	LF	1,052		
17	SMA	Remove Existing Pavement	SY	524		
18	SMA	Remove Existing Light Fixtures	EA	1		
19	SMA	Remove Existing Conduit & Electrical Wires	LF	125		
20	SMA	Remove Existing Electrical Metering Pedestal	EA	1		
21	SMA	Remove Existing 2" Waterline	LF	125		
22	SMA	Remove Perforated Tank Foundation Under Drains	LF	800		
23	SMA	Remove / Salvage Existing Tank Level Sensor	EA	1		
Tank (Construc	tion	•	•		
24	SMA	Construction Shoring (Soil Nailing)	LS	1		
25	SMA	New 4 Million Gallon Concrete Tank	LS	1		
26	SMA	Tank Stairs	LS	2		
27	SMA	Tank Access Hatches (above stairs & inlet/outlet)	LS	2		
28	SMA	Tank Access Hatches (above overflow)	LS	2		

29 SMA Tank Backfill CY 18,149 30 SMA 4" Tank Foundation Drain Pipe LF 575 31 SMA Retaining Walls SF 4,832 32 SMA 3/4" Crushed Rock Type B (Class 1 crushed stone) CY 468 33 SMA Geogrid SY 836 34 DOT-570 24" Storm Drain Culvert Pipe LF 320 35 DOT-623 5' x 5' Median Drop Inlet & Storm Drain Manhole EA 1 36 DOT-662 Precast Concrete Manhole (Type "E") EA 1 36 DOT-662 Precast Concrete Manhole (Type "E") EA 1 37 DOT-570 24" Culvert Pipe End Section EA 1 38 DOT-602 Wire Enclosed Riprap (Class A) SY 110 39 SMA Inlet / Outlet Structure EA 2 40 SMA Overflow Structure EA 2 41 SMA 24" Ductile Iron Pipe (DIP) LF	
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51 SMA Chain Link Fence (around Tank Overflow Outlet) LF 32	
52 SMA 1" Dia Copper Tubing (Type "K") LF 232	
53 SMA Water Line Service Tap EA 1	
54 SMA Water Meter Assembly CIP EA 1	
55 DOT-432 4" Hot Mix Asphalt SP-111 (trench patch) SY 77	
56 SMA Frost Free Yard Hydrant Assembly CIP EA 1	
Valve Vault Plumbing	•
57 SMA Remove / Salvage Existing 8" Butterfly Valve EA 1	
58 SMA Remove / Salvage Existing 24" Butterfly Valve EA 1	
59 SMA Remove Existing 24" FCA w/ Restraining Rods EA 1	
60 SMA Remove / Salvage Existing Pipe Support EA 1	
61 SMA Remove Existing 24" Plumbing Stub-out through Wall EA 1	

Item No.	Item Code	Description	Unit	Est. Qty.	Unit Price	Total Price
62	SMA	Patch Concrete Wall & Cover with 60 mil Waterproofing	LS	1		
63	SMA	8" DI Pipe	LF	LF 28		
64	SMA	24" DI Pipe	LF	12		
65	SMA	24"x24"x8" DI MJ Tee	EA	2		
66	SMA	24"x24"x6" DI MJ Tee	EA	1		
67	SMA	24"x24"x24" DI MJ Tee	EA	1		
68	SMA	24" DIP Blind Flange	EA	1		
69	SMA	8" DI 90° MJ Bend	EA	3		
70	SMA	8" DI Butterfly Valve w/ Electronic Actuator	EA	2		
71	SMA	4" DI CLA-VAL Series 36 ARV or Series 38 ARV	EA	1		
72	SMA	24" DI Butterfly Valve w/ Electronic Actuator	EA	2		
73	SMA	Pipe Supports	EA	4		
74	SMA	Pipe Nipple for Pressure Transmitter	EA	2		
Site G	rading 8	Landscaping				
75	SMA	Final Site Grading	LS	1		
76	SMA	Juniperus Monosperma / One-seed Juniper	EA	33		
77	SMA	Artemisia Tridentata / Tall Western Sage	EA	18		
78	SMA	Atriplex Canescens / Four Wing Saltbrush	EA	9		
79	SMA	Cercocarpus Ledifolius / Curlleaf Mountain Mahogany	EA	8		
80	SMA	Chamaebatiaria Millefolium / Fernbush	EA	12		
81	SMA	Ericameria Nauseosa spp. / Chamisa	EA	18		
82	SMA	Fallugia Paradoxa / Apache Plume	EA	12		
83	SMA	Holodiscus Dumosus / Rock Spirea	EA	10		
84	SMA	Krasheninikovia Lanata / Winterfat	EA	6		
85	SMA	Rhus Trilobata / Three-Leaf Sumac	EA	12		
86	SMA	Ribes Aureum / Yellow Flowering Currant	EA	8		
87	SMA	Shepherdia Argentea / Silver Buffaloberry	EA	6		
88	SMA	Yucca Baccata / Datil Yucca	EA	7		
89	SMA	2' x 3' x 2.5' Boulders	EA	52		
90	SMA	Irrigation Shut-off and Drain Valve	EA	2		
91	SMA	FEBCO 860U 3/4" reduced pressure/ backflow asmbly	EA	1		
92	SMA	Controller, Rainbird ESP-4M and RSD Rain Sensor	EA	1		
93	SMA	Control Valve, Rainbird LFV-100 & RBY100MPTX Filter	EA	3		
94	SMA	3/4" PE Irrigation Tubing	LF	3,000		

Item No.	Item Code	Description	Unit	Est. Qty.	Unit Price	Total Price
95	SMA	3" Sch. 40 PVC Sleeve (under parking area)	LF	30		
96	SMA	Rainbird XB-10C 1 GPH Emitter w/ stake and bug cap	EA	252		
97	SMA	Rainbird PC-05 5 GPH Emitter w/ stake and bug cap	EA	99		
Acces	s Road &	R Parking lot	•			•
98	DOT-609 Remove C&G, Replace with Type E Laydown Cu		LF	287		
99	DOT-609	Type B Barrier Curb	LF	125		
100	DOT-608	5' Concrete Side Walk	SY	287		
101	DOT-608	ADA Ramp	EA	2		
102	DOT-203	Excavation	CY	2,148		
103	DOT-203	Fill (Embankment)	CY	2,138		
104	DOT-207	6" Compacted Subgrade	SY	1,660		
105	DOT-303	4" Base Course	CY	172		
106	DOT-423	4" Hot Mix Asphalt SP-111	SY	432		
107	DOT-570	36" CMP	LF	130		
108	DOT-570	36" End Section	EA	2		
109	DOT-603	1"-3" Coarse Aggregate for Off Site Tracking Prevention	LS	1		
110	DOT-607	14'-0" Tubular Ranch Gate	EA	2		
111	SMA	14'-0" Road Closure Gate	EA	3		
112	SMA	Relocation of Electrical Box	EA	1		
113	DOT-607	Barbed Wire Fence	LF	50		
114	SMA	DOT Access Permit	LS	1		
115	DOT-606	W-Beam Guardrail	LF	255		
Acces	s Road I	ntersection Removal				
116	DOT-618	Traffic Control	LS	1		
117	DOT-601	Remove Existing Curb & Gutter	LF	287		
118	DOT-601	Removal Existing Pavement	SY	260		
119	DOT-601	Remove Existing 5' Concrete Sidewalk	SY	287		
120	DOT-609	Type B Barrier Curb	LF	287		
121	DOT-608	5' Concrete Sidewalk	SY	287		
122	DOT-303	4" Base Course	CY	29		
123	DOT-208	Re-grade Site	LS	1		
124	DOT-632	Re-seeding	LS	1		

Item No.	Item Code	Description	Unit	Est. Qty.	Unit Price		Unit Price Total Price	
Tank	Controls						•	
125	SMA	Design / Build VCP & RTU	Allow.	1	\$	65,000.00	\$	65,000.00
126	SMA	SCADA, PLC Programming	Allow.	1	\$	15,000.00	\$	15,000.00
127	SMA	3/4" PVC Coated RGC	LF	1,315				
128	SMA	1" PVC Coated RGC	LF	817				
129	SMA	2" PVC Coated RGC	LF	31				
130	SMA	#12 XHHW-2	LF	756				
131	SMA	#14 XHHW-2	LF	7,108				
132	SMA	6 Fiber Cable	LF	1,360				
133	SMA	Belden 9342	LF	1,800				
134	SMA	Pull Box, SS NEMA-4	LF	4				
135	SMA	Junction Box, FS PVC coated	EA	33				
136	SMA	Connect Irrigation Control Panel	EA	1				
137	SMA	20A 1p CB in Existing Panel	EA	4				
138	SMA	Connect Instrument	EA	16				
139	SMA	Connect Motorized Valve	EA	4				
140	SMA	Terminate at VCP	EA	89				
141	SMA	Trench and Backfill	LF	700				
142	SMA	Coredrill Valve Vault	EA	3				
143	SMA	Patch	EA	3				
144	SMA	Removals	LS	1				
Tools	and Spa	re Parts (as defined in Exhibit VI of the RFB)						
145	N/A	Tools	LS	1				
146	N/A	Spare Parts	LS	1				

Sub-Total: _	
10% Contingency: _	
Total Base Bid (excluding tax):	

SECTION 01 22 00

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 SUMMARY

- A. Measurement and payment shall be as specified in this Section.
- B. Work to be performed under this contract will be paid for on a unit price basis under the appropriate Bid Items on the Bid Form. All costs for work shown on Drawings or described in Specifications shall be incidental to the Contract and shall be included in the Contract Price. A claim by the Contractor for extra compensation for an item shown on the Drawings or described in the Specifications will not be considered for any reason, including but not limited to, the claim that it does not fall within the scope of one of the Bid Items.
- C. Contractor shall, within 10 days of receipt of Notice to Proceed, submit a complete breakdown of any lump sum bid items showing value assigned to each part of work including overhead and profit. Payment for materials delivered but not fully incorporated in work will be made only if such materials are listed and assigned a value in Contractor's submittal.
- D. General Scope of Work under each Bid item includes labor and materials required for construction of a completely functional and operational water storage facility as detailed on the Drawings and in these Specifications.
- E. Estimated quantities stipulated on the Bid Form are approximate and are to be used only (a) as a basis for determining the probable cost of the work and (b) for the purpose of comparing the bids submitted for the work. The actual amounts of work done and materials furnished under unit price items may differ from the estimated quantities. The basis of payment of work and materials will be the actual amount of work done and materials furnished.

1.2 BID ITEM DESCRIPTIONS

A. Item numbers listed below correspond directly to Bid Item numbers on the Bid Form. Item Codes identified on the Bid Form correspond to NMDOT specifications.

General

Item No. I - Mobilization

Includes: Work consists of preparatory work, preliminary operations, movement of personnel, equipment, supplies and incidentals to the Project including but not limited to:

 All costs for Contractor's mobilization and demobilization, insurance and bonds, construction permits and fees, water for dust control and miscellaneous construction, job trailers and site administration expenses, and utilities to the job trailers including power, telephone, etc.

Payments:

Submit Mobilization schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved Mobilization schedule of values.

Item No. 2 - SWPPP

Includes: All cost associated with the preparation, implementation and administration of the Storm Water Pollution Prevention Plan throughout the duration of the project per the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction section 603 (current edition, typ.).

Item No. 3 - Traffic Control

Includes: All cost associated with design, DOT permitting, implementation and administration throughout the duration of the project (See Basic Requirements section 01 00 00).

Payments

Submit traffic Control schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved Traffic Control schedule of values.

Item No. 4 - Geotechnical under removed tank

Includes: Additional borings underneath the demolished tank to verify the soil bearing pressure recommended by the geotechnical report (as prepared by Geo-Test on September 18, 2015 with the job No. 1-50411). Number and location of borings as recommended by the Geotechnical engineer. Geotechnical lab tests, reports and recommendations.

Payments:

Submit Geotechnical schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved Geotechnical schedule of values.

Item No. 5 - Testing Allowance

Includes: All soil compaction testing, concrete testing, Hydrostatic Testing, water tightness testing, bacteriological testing and any other required test per SMA not already covered by New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction (current edition) (see Basic Requirements section 01 00 00).

Item No. 6 – Construction Staking

Includes: This work consists of all construction staking essential for the control and completion of the project and must be performed under the responsibility of a licensed New Mexico Professional Surveyor. Work may include but not be limited to:

- Locating and/or establishing control points with the data given on the plans
- Verifying provided survey data and submitting any changes or adjustments (including record data) to the project manager for review and approval at no cost to the city.
- Maintain field notes and submit copies to the project manager along with pay requests
- Meet accuracy requirements as dictated by the individual elements of work.

Payments:

Submit construction-staking schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved construction staking schedule of values.

Item No. 7 - NMDOT Temporary Driveway Access Permit

Includes: All cost associated with acquisition of an NMDOT temporary driveway access permit include any permit application requirements, fees and additional drawings if required.

Item No. 8 - Tank Disinfection

Includes: All cost associated with tank disinfection excluding having to repeat disinfection do to failed test.

Demolition

Item No. 9 - Existing Tank Demolition

Includes: Demolition and removal of the existing tank in its entirety excluding the north-east wall which is to remain in-place. This includes but is not limited to: 4" topping demolition, wall demolition, footing demolition, concrete column and beams demolition, concrete slab demolition and all disposal fees.

Payments:

Submit Demolition schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved demolition schedule of values.

Item No. 10 - Tank Excavation

Includes: All Excavation associated with the removal of the existing tank and as require for construction of the replacement tank. This also includes any additional effort that may be associated with excavating along the north-east wall in lifts as required by the tank demolition plans (see sheets CD-5 & CD-6 and Technical Specifications section 31 22 13).

Item No. 11 - Removal and salvage chain link fence

Includes: all materials and labor for removal, salvage and delivery to city salvage yard as directed by the Owner's Representative.

Item No. 12 - Remove existing valve vault and manhole

Includes: demolition, removal and disposal of existing vault and manhole.

Item No. 13 - Remove overflow and inlet/outlet line

Includes: demolition, removal and disposal of existing waterlines, fittings and valves.

Item No. 14 - Remove/salvage rip-rap

Includes: demolition, removal and salvage (to the extent possible) and store on site for use in new Rip-Rap.

Item No. 15 - Remove existing barbed wire fence

Includes: demolition, removal and disposal of existing barbed wire fence.

Item No. 16 - Remove existing curb & gutter

Includes: demolition, removal and disposal of existing curb and gutter.

Item No. 17 - Removal existing pavement

Includes: demolition, removal and disposal of existing asphalt pavement.

Item No. 18 - Removal existing light fixtures

Includes: demolition, removal and disposal of existing light fixtures.

Item No. 19 - Remove existing conduit & electrical wires

Includes: coordination with utility provider, utility provider fees if applicable, demolition, removal and disposal of existing electrical conduit and wiring.

Item No. 20 - Remove existing electrical metering pedestal

Includes: coordination with utility provider, utility provider fees if applicable, demolition, removal and disposal of existing electrical metering pedestal.

Item No. 21 - Remove existing waterlines

Includes: demolition, removal and disposal

Item No. 22 - Remove perforated tank foundation under drains

Includes: demolition, removal and disposal of pipe and gravel bedding material.

Item No. 23 – Remove and salvage existing tank level sensor.

Includes: removal and delivery to city salvage yard as directed by the Owner's Representative.

Construction

Item No. 24 - Construction Shoring (Soil Nailing)

Includes: all materials and labor associated with soil nailing of existing tank north-east wall, soil nailing in gunite and gunite of exposed surface as depicted on sheets SD-5 & CD-6.

Payments:

Submit Construction Shoring (soil Nailing) schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved Construction Shoring (soil Nailing) schedule of values.

Item No. 25 - New 4 Million Gallon Concrete Tank

Includes: all materials & labor to complete construction of the new 4 million gallon concrete tank structure including but not limited to: floor (slab), columns & footings, walls and pilasters, roof and drop panels and all required reinforcement.

Payments:

Submit Construction of the 4 Million Gallon Concrete Tank schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved Construction of the 4 Million Gallon Concrete Tank schedule of values

Item No. 26 - Tank Stairs

Includes: all materials and labor for final design (including engineered shop drawings with engineers seal), fabrication, shipping and installation of stairs as shown on sheets S-8 through S-10. The Manufacturer is responsible for final design.

Payments:

Submit Tank Stairs schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved Tank Stairs schedule of values.

Item No. 27 - Tank Access Hatches (Above stairs & inlet/outlet)

Includes: all materials and labor for installation of the tank roof access hatch as depicted in detail D/S11 on sheet S-11 including but not limited to: the 2' high concrete knee wall, concrete stairs, 3'-6" x 8'-0" Bilco Type KD Aluminum inner Assess door and the 7'-0" x 12'-0" Bilco Type D aluminum outer roof scuttle. Contractor to submit shop drawings of the entire access hatch assembly as described for approval.

Payments:

Submit access hatch schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved Access Hatch schedule of values.

Item No. 28 - Tank Access Hatches (Above Overflow)

Includes: all materials and labor for installation of the tank roof access hatch as depicted in detail L/S11 on sheet S-11 including but not limited to: the 2' high concrete knee wall, tank vents, and the 4'-0" Sq. Bilco Type F hatch and vents. Contractor to submit shop drawings of the entire access hatch assembly as described for approval.

Payments:

Submit access hatch schedule of values as part of the CPM or monthly progress schedule to the project manager. Partial payments will be made in accordance with the approved Access Hatch schedule of values.

Item No. 29 - Tank Backfill

Includes: all backfill around tank, on top of tank and any access slopes graded to the bottom tank for construction purposes. See section 31 23 23 of the technical specifications.

Item No. 30 - 4" Tank Foundation Drain Pipe

Includes: all materials and labor for installation of the 4" tank footing drain except the gravel around pipe witch is quantified in item N0. $32 - \frac{3}{4}$ " Crushed Rock Type B (Class 1 crushed stone) and the filter fabric around the gravel witch is quantified in item No. 34 - Filter Fabric.

Item No. 31 - Retaining Walls

Includes: all materials and labor for installation of the Keystone retaining wall system including the cap block but excluding Geogrid (as quantified in Item No. 32) and the 3/4" crushed stone backfill and leveling pad (as quantified in Item No. 32).

Item No. 32 - 3/4" Crushed Rock Type B (Class 1 crushed stone)

Includes: all materials and labor for installation of the ³/₄" crushed stone backfill for retaining wall, retaining wall leveling pad and the 4" tank foundation drain.

Item No. 33 - Geogrid

Includes: all materials and labor for installation of the Geogrid within the Keystone retaining wall system.

Item No. 34 - 24" Storm Drain Culvert Pipe

Includes: all materials and labor for installation of the 24" storm drain culvert pipe including but not limited to: Pipe, Pipe bedding, Trenching, warning tape, locate wire and backfill (see the New Mexico State Department of Transportation Standard Specifications for Highway and Bridge construction section 570).

Item No. 35 - 5' x 5' Median Drop Inlet

Includes: all material and labor for installation of the median drop inlet including but not limited to: excavation, installation, bedding and backfill (see the New Mexico State Department of Transportation Standard Specifications for Highway and Bridge Construction section 623).

Item No. 36 – Precast Concrete Manhole Type "E"

Includes: all material and labor for installation of the storm drain manhole including but not limited to: excavation, installation, bedding and backfill (see the New Mexico State Department of Transportation Standard Specifications for Highway and Bridge Construction section 662).

Item No. 37 - 24" Culvert Pipe End Section

Includes: all materials and labor for installation of culvert pipe end section (see the New Mexico State Department of Transportation Standard Specifications for Highway and Bridge Construction section 570).

Item No. 38 - Wire Enclosed Riprap (Class A) (see the New Mexico State Department of Transportation Standard Specifications for Highway and Bridge Construction section 602). Includes: all materials and labor for installation of Class A rip rap including but not limited to: wire, rip-rap, filter fabric and steel stakes.

Item No. 39 - Inlet / Outlet Structure

Includes: all materials and labor for final design (shop drawings), fabrication and installation of the inlet/outlet structure as depicted in detail 1/D-7 on sheet D-7.

Item No. 40 - Overflow Structure

Includes: all materials and labor for installation of the overflow structure as depicted in detail 2/D-7 on sheet D-7, including but not limited to: 20" short radius 90 deg. bend FLG x Flare, 20" DIP pipe through tank wall and 20" D.I. 90 deg.

Item No. 41 - 24" D.I.P.

Includes: all materials and labor (excluding D.I. fittings) for installation of 24" D.I. pipe (see Technical Specifications section 33 11 00).

Item No. 42 - 20" D.I.P.

Includes: all materials and labor (excluding D.I. fittings) for installation of 20" DIP (see Technical Specifications section 33 11 00).

Item No. 43 - 24" DI 90° Bend

Includes: all materials and labor for installation of 24" DI 90° Bend (see Technical Specifications section 33 11 00).

Item No. 44 - 20" DI 90° Bend

Includes: all materials and labor for installation of 20" DI 90° Bend (see Technical Specifications section 33 11 00).

Item No. 45 - 24" DI 45° Bend

Includes: all materials and labor for installation of 24" DI 45° Bend (see Technical Specifications section 33 11 00).

Item No. 46 - 24" DI Restrained Mechanical Joint

Includes: all materials and labor for installation of 24" DI Restrained Mechanical Joint (see Technical Specifications section 33 11 00).

Item No. 47 - 20" DI Restrained Mechanical Joint

Includes: all materials and labor for installation of 20" DI Restrained Mechanical Joint (see Technical Specifications section 33 11 00).

Item No. 48 - 24" to 20" DI Reducer

Includes: all materials and labor for installation of 24" to 20" DI Reducer (see Technical Specifications section 33 11 00).

Item No. 49 - 2" HDPE Still Pipe

Includes: all materials and labor for installation of 2" HDPE Still Pipe and fiberglass unistruts for Supports as needed (see Technical Specifications section 33 11 00).

Item No. 50- Remove / Replace as needed Chain Link Fence

Includes: all materials and labor for removal and replacement of existing chain link fence around valve vault as needed for excavation and connection of tank inlet outlet lines.

Item No. 51 - Chain Link Fence (Around Tank Overflow Outlet)

Includes: all materials and labor for an 8' high chain link fence with a 4' pedestrian access gate around the drop inlet on the tank overflow line as detailed on sheet D-1.

Item No 52 - 1" Dia. Copper Tubing (Type "K")

Includes: all materials, labor fittings, bedding and backfill for installation of 1" PE tubing (see Technical Specifications section 33 11 00).

Item No 53 – Waterline Service Tap

Includes all materials and labor necessary for making the service tap connection to the municipal waterline (see Technical Specifications section 33 11 00).

Item No. 54 – Water Meter Assembly

Includes: all materials and labor for installation of the complete water meter assembly as depicted in detail 5 on sheet D-7 (see Technical Specifications section 33 11 00).

Item No. 55 4" Hot Mix Asphalt SP-111 (for patching water service line trench in road).

Includes: subgrade prep, base course, pavement and labor for patching the road (see DOT section 432).

Item No. 56 Frost Free Yard Hydrant Assembly

Includes: all materials and labor for installation of the complete yard hydrant assembly as depicted in detail 4 on sheet D-7 (see Technical Specifications section 33 11 00).

Valve Vault Plumbing

Item No. 57 - Remove/Salvage existing 8" Butterfly Valve

Includes: all materials and labor for removing, salvaging and delivery to city salvage yard as directed by the Owner's Representative

Item No. 58 - Remove/Salvage existing 24" Butterfly Valve

Includes: all materials and labor for removing, salvaging and delivery to city salvage yard as directed by the Owner's Representative

Item No. 59 - Remove existing 24" FCA W/Restraining Rods

Includes: all materials, labor and disposal cost associated with removal.

Item No. 60 - Remove / Salvage existing Pipe Support

Includes: all materials and labor for removing, salvaging and delivery to city salvage yard as directed by the Owner's Representative

Item No. 61 - Remove existing Plumbing Stub-out thru wall

Includes: all materials, labor and disposal cost associated with removal.

Item No. 62 - Patch Concrete Wall & cover w/ 60 mil waterproofing

Includes: all materials and labor for patching and water proofing 24" wall penetration.

Item No. 63 - 8" DIP Pipe

Includes: all materials, labor and disposal cost associated with removal (see Technical Specifications section 33 11 00).

Item No. 64 - 24" DIP Pipe

Includes: all materials, labor and disposal cost associated with removal (see Technical Specifications section 33 11 00).

Item No. 65 - 24"x24"x8" DI MJ Tee

Includes: all material and labor for installation of 24"x24"x8" DI MJ Tee (see Technical Specifications section 33 11 00).

Item No. 66 - 24"x24"x6" DI MJ Tee

Includes: all material and labor for installation of 24"x24"x6" DI MJ Tee (see Technical Specifications section 33 11 00).

Item No. 67 - 24"x24"x24" DI MJ Tee

Includes: all material and labor for installation of 24"x24"x24" DI MJ Tee (see Technical Specifications section 33 11 00).

Item No. 68 - 24" DIP Blind Flange

Includes: all material and labor for installation of 24" DIP Blind Flange (see Technical Specifications section 33 11 00).

Item No. 69 - 8" DI 90 deg MJ bend

Includes: all material and labor for installation of 8" DI 90 degree MJ bend (see Technical Specifications section 33 11 00).

Item No. 70 – 8" Butterfly Valve with Electronic Actuator

Includes: all materials, labor and calibration for installation of a functional valve (see Technical Specifications section 33 11 00).

Item No. 71 – 4" CLA-VAL Series 36 ARV or Series 38 VB/AR

Includes: all materials, labor and calibration for installation of a functional valve (see Technical Specifications section 33 11 00).

Item No. 72 – 24" Butterfly Valve with Electronic Actuator

Includes: all materials, labor and calibration for installation of a functional valve (see Technical Specifications section 33 11 00).

Item No. 73 - Pipe Supports

Includes: all material and labor for installation of Pipe Supports (see Technical Specifications section 33 11 00).

Item No. 74 - Pipe Nipple for Pressure Transmitter

Includes: all material and labor for installation of Pipe Nipple for Pressure Transmitter (see Technical Specifications section 33 11 00).

Site Grading and Landscaping

Item No. 75 - Final Site Grading

Includes: all materials and labor for final preparation for seeding and planting.

Item No. 76 - Juniperus Monosperma / One-Seed Juniper

Includes: all material and labor for installation of Juniperus Monosperma / One-Seed Juniper

Item No. 77 - Artemisia Tridentata / Tall Wester Sage

Includes: all material and labor for installation of Artemisia Tridentata / Tall Wester Sage

Item No. 78 - Atriplex Canescens / Four Wing Saltbrush

Includes: all material and labor for installation of Atriplex Canescens / Four Wing Saltbrush

Item No. 79 - Cercocarpus Ledifolius / Curlleaf Mountain Mahogany

Includes: all material and labor for installation of Cercocarpus Ledifolius / Curlleaf Mountain Mahogany

Item No. 80 - Chamaebatiaria Millefolium / Fernbush

Includes: all material and labor for installation of Chamaebatiaria Millefolium / Fernbush

Item No. 81 - Ericameria Nauseosa spp. / Chamisa

Includes: all material and labor for installation of Ericameria Nauseosa spp. / Chamisa

Item No. 82 - Fallugia Paradoxa / Apache Plume

Includes: all material and labor for installation of Fallugia Paradoxa / Apache Plume

Item No. 83 - Holodiscus Dumosus / Rock Spirea

Includes: all material and labor for installation of Holodiscus Dumosus / Rock Spirea

Item No. 84 - Krasheninikovia Lanata / Winterfat

Includes: all material and labor for installation of Krasheninikovia Lanata / Winterfat

Item No. 85 - Rhus Trilobata / Three-Leaf Sumac

Includes: all material and labor for installation of Rhus Trilobata / Three-Leaf Sumac

Item No. 86 - Ribes Aureum / Yellow Flowering Currant

Includes: all material and labor for installation of Ribes Aureum / Yellow Flowering Currant

Item No. 87 - Shepherdia Argentea / Silver Buffaloberry

Includes: all material and labor for installation of Shepherdia Argentea / Silver Buffaloberry

Item No. 88 - Yucca Baccata / Datil Yucca

Includes: all material and labor for installation of Yucca Baccata / Datil Yucca

Item No. 89 - 2' x 3' x 2.5' Boulders

Includes: all material and labor for installation of 2' x 3' x 2.5' Boulders

Item No. 90 - Irrigation Shut-off and Drain Valve

Includes: all material and labor for installation of Irrigation Shut-off and Drain Valve

Item No. 91 - FEBCO 860U 3/4" reduced pressure/backflow assembly

Includes: all material and labor for installation of FEBCO 860U 3/4" reduced pressure/backflow assembly

Item No. 92 - Controller, Rainbird ESP-4M and RSD Rain Sensor

Includes: all material and labor for installation of Controller, Rainbird ESP-4M and RSD Rain Sensor

Item No. 93 - Control valve, Rainbird LFV-100 & RBY100MPTX Filter

Includes: all material and labor for installation of Control valve, Rainbird LFV-100 & RBY100MPTX Filter

Item No. 94 - 3/4" PE irrigation Tubing

Includes: all material and labor for installation of 3/4" PE irrigation Tubing

Item No. 95 - 3" Sch. 40 PVC Sleeve (Under Parking area)

Includes: all material and labor for installation of 3" Sch. 40 PVC Sleeve (under drive)

Item No. 96 - Rainbird XB-10C 1 GPM Emitter w/Stake & Bug Cap

Includes: all material and labor for installation of Rainbird XB-10C 1 GPM Emitter w/Stake & Bug Cap

Item No. 97 - Rainbird PC-05 5 GPM Emitter w/Stake & Bug Cap

Includes: all material and labor for installation of Rainbird PC-05 5 GPM Emitter w/Stake & Bug Cap

Access Road and Parking Lot

Item No. 98 - Curb Cut (or remove and replace with laydown curb)

Includes: all materials and labor to either cut existing curb leaving a 2" lip or remove and replace with a new laydown curb. Also includes any and all disposal costs (see section 609 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 99 - Type B Barrier Curb

Includes: all materials and labor for installation of Type B Barrier Curb and Gutter (see section 609 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 100 - 5' Concrete Side Walk

Includes: all materials and labor for installation of 5' side walk (see section 608 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 101 - ADA Ramp

Includes: all materials and labor for installation of ADA ramp (see section 608 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 102 - Excavation

Includes: all labor and materials for all excavation for new roadway (without shrink or swell adjustments) (see section 203 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 103 - Fill

Includes: all labor and materials for all fill (embankment) for new roadway (without shrink or swell adjustments) (see section 203 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 104 - 6" Compacted subgrade

Includes: all materials and labor for processing and re-compaction of 6" of subgrade (see section 207 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 105 - 4" Base Course

Includes: all material and labor for installation of 6" base course (see section 303 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 106 - 4" Hot Mix Asphalt SP-111

Includes: all material and labor for installation of 4" of asphalt (see section 423 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 107 - 36" CMP

Includes: all materials and labor for installation of 36" culvert pipe (see section 570 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 108 - 36" end Section

Includes: all materials and labor for installation of 36" culvert pipe end sections (see section 570 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 109 - 1"-3" Coarse Aggregate - Off-Site Tracking Prevention

Includes: all materials and labor for installation of the "Off-Site Tracking Preventions" (see section 603 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 110 - 14'-0" Tubular Ranch Gate

Includes: all materials and labor for installation of a Tubular ranch gate as depicted on sheet NMDOT 607-01-1/4 (see section 607 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 111 - 14'-0" Road Closure Gate

Includes: all materials and labor for shop drawings, fabrication and installation of a road closure gate as depicted on sheet D-8.

Item No. 112 - Relocation of Electrical Box

Includes: all labor, materials, coordination with utility provider and any associated fees for relocation of existing electrical box.

Item No. 113 - Barbed Wire Fence

Includes: all material and labor for installation of barbed wire fence as depicted on NMDOT sheet 607-01-1/4. (See section 607 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 114 - DOT Access Permit

Includes: all labor and materials for preparation, submission and acquisition of a temporary construction road access permit from the New Mexico Department of Transportation.

Item No. 115 – W-Beam guardrail

Includes: all materials and labor for installation of the guardrail (see section 606 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Access Road Intersection Removal

Item No. 116 - Traffic Control

Includes: all materials and labor for preparation, NMDOT approval, implementation and administration of a traffic control plan (see section 618 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 117 - Remove existing curb & gutter

Includes: all materials and labor for demolition, removal and disposal of curb and gutter (see section 601 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 118 - Removal existing pavement

Includes: all materials and labor for demolition, removal and disposal of existing pavement (see section 601 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 119 - Remove existing 5' Concrete Sidewalk

Includes: all materials and labor for demolition, removal and disposal of existing sidewalk (see section 601 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 120 - Type B Barrier Curb

Includes: all material and labor for installation of Type B curb and gutter (see section 609 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 121 - 5' Concrete Side Walk

Includes: all material and labor for installation of 5' sidewall (see section 608 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 122 – 4" Base Couse

Includes: all materials and labor for installation of base course under new sidewalk (see section 303 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 123 - Re-grade site

Includes: all materials and labor to re-grade the site to match historic features prior to construction activities (see section 208 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Item No. 124 - Re-seeding

Includes: all materials and labor to re-seed the site with native seed mix (see section 632 of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction).

Tank Controls

Item No. 125 - Design / Build VCP and RTU

Includes: all materials and labor to design, fabricate and install the tank control in accordance with drawings SCADA-1 through SCADA-3. Contractor to provide shop drawings for approval. Payments:

The bid schedule includes a predetermined sum to cover the cost of designing, fabricating, handling and installing the VCP and RTU assemblies per the Contract Documents.

• Contractor shall submit details regarding the proposed VCP and RTU, including a statement of qualifications of the manufacturer and installer, and a schedule of unit price

- costs associated with the work to be completed under the allowance. Engineer may require the Contractor to solicit additional quotes if the proposed costs are not competitive.
- Costs Included in Allowance: Cost of purchasing, transporting, handling, storing, and installing the work.
- Costs Not Included in Allowance: Incidental labor and facilities required of Contractor to assist in the work.
- Costs will be drawn from the allowance and paid based on invoice(s) submitted to Contractor by VCP and RTU provider/installer, and reimbursed at cost, with no markup by Contractor. Contractor shall submit appropriate NTTC form to Subcontractor to assure tax is not included on invoices.

Item No. 126 – SCADA PLC Programming

Includes: all materials, software and labor required to program the VCP & RTU

Payments:

The bid schedule includes a predetermined sum to cover the cost of programming the VCP and RTU.

- Contractor shall submit details regarding the proposed programmer of the VCP and RTU, including a statement of qualifications of the manufacturer and installer, and a schedule of unit price costs associated with the work to be completed under the allowance. Engineer may require the Contractor to solicit additional quotes if the proposed costs are not competitive.
- Costs Included in Allowance: Cost of programming the VCP and RTU.
- Costs Not Included in Allowance: Incidental labor and facilities required of Contractor to assist in the work.
- Costs will be drawn from the allowance and paid based on invoice(s) submitted to Contractor by VCP and RTU programmer, and reimbursed at cost, with no markup by Contractor. Contractor shall submit appropriate NTTC form to Subcontractor to assure tax is not included on invoices.

Item No. 127 - 3/4" PVC coated RGC

Incudes: all material and labor for installation of 3/4" PVC coated RGC.

Item No. 128 - 1" PVC coated RGC

Incudes: all material and labor for installation of 1" PVC coated RGC.

Item No. 129 - 2" PVC coated RGC

Incudes: all material and labor for installation of 2" PVC coated RGC.

Item No. 130 - #12 XHHW-2

Incudes: all material and labor for installation of #12 THHN.

Item No. 131 - #14 XHHW-2

Incudes: all material and labor for installation of #16 TFN.

Item No. 132 - 6 fiber cable

Incudes: all materials and labor for pulling a new fiber optic line through an existing conduit from the valve vault to the altitude valve.

Item No. 133 - Belden 9342

Incudes: all material and labor for installation of Belden 9432.

Item No. 134 - Pull Box, SS NEMA-4

Incudes: all material and labor for installation of Pull Box, SS NEMA-4.

Item No. 135 - Junction Box, FS PVC coated

Incudes: all material and labor for installation of Junction box, FS PVC coated.

Item No. 136 - Connect irrigation control panel

Incudes: all material and labor for installation of Connect irrigation control panel.

Item No. 137 - 20A 1p CB in existing panel

Incudes: all material and labor for installation of 20A 1p CB in existing panel.

Item No. 138 - Connect Instrument

Incudes: all material and labor for installation of Connect Instrument.

Item No. 139 - Connect Motorized Valve

Incudes: all material and labor for installation of Connect Motorized Valve. Drain valve actuators shall have AI/AO card installed.

Item No. 140 - Terminate at VCP

Incudes: all material and labor for installation of Terminate at VCP.

Item No. 141 - Trench and backfill

Incudes: all material and labor for installation of Trench and backfill.

Item No. 142 - Coredrill Valve Vault

Incudes: all material and labor for installation of Coredrill Valve Vault.

Item No. 143 - Patch

Incudes: all material and labor for installation of Patch.

Item No. 144 - Removals

Incudes: all material and labor for removals as shown on electrical plans (Sheets E-1 thru E-3).

Item No. 145 - Tools

Incudes: an amount for Tools as itemized in Exhibit VI.

Item No. 146 - Spare Parts

Incudes: an amount for Spare Parts as itemized in Exhibit VI.

PART 2 PRODUCTS

Not Used.

CITY OF SANTA FE WATER DIVISION

January 2016

Hospital Tank Replacement Project

PART 3 EXECUTION

Not Used.

END OF SECTION

SUMMARY OF QUANTITIES

ltem #	Item Code	Description	Units	Project Quantities
1	SMA	Mobilization	LS	1
2	SMA	SWPPP	LS	1
3	DOT	Traffic Control	LS	1
4	SMA	Geotechnical under Removed Tank	LS	1
5	SMA	Testing	Allowance	1
6	SMA	Construction Staking	LS	1
7	DOT	NMDOT Temporary Driveway Access Permit	LS	1
8	SMA	Tank Disinfection	LS	1
	Demolition	1		
9	SMA	Existing Tank Demolition	LS	1
10	SMA	Tank Excavation	CY	18,500
11	SMA	Remove and Salvage Chain Link Fence	LF	1,172
12	SMA	Remove existing Valve Vault and Manhole	LS	1
13	SMA	Remove Overflow and Inlet/Outlet line	LF	115
14	SMA	Remove and Salvage Riprap	CY	36
15	SMA	Remove existing Barbed Wire Fence	LF	537
16	SMA	Remove existing Curb & Gutter	LF	1,052
17	SMA	Remove existing Pavement	SY	524
18	SMA	Remove existing Light Fixtures	EA	1
19	SMA	Remove existing Conduit & Electrical Wires	LF	125
20	SMA	Remove existing Electrical Metering Pedestal	EA	1
21	SMA	Remove existing 2" Waterline	LF	125
22	SMA	Remove perforated Tank Foundation under Drains	LF	800
23	SMA	Romove and Salvage existing Tank Level Sensor	EA	1
	Tank Cons	struction		
24	SMA	Construction Shoring (Soil Nailing)	LS	1
25	SMA	New 4 Million Gallon Concrete Tank	LS	1
26	SMA	Tank Stairs	LS	2
27	SMA	Tank Access Hatches (above Stairs & Inlet/Outlet)	LS	2
28	SMA	Tank Access Hatches (above Overflow)	LS	2
29	SMA	Tank Backfill	CY	18,149
30	SMA	4" Tank Foundation Drain Pipe	LF	575
31	SMA	Retaining Walls	SF	4,832
32	SMA	3/4" Crushed Rock Type B (Class 1 Crushed Stone)	CY	468
33	SMA	Geogrid	SY	836
34	SMA	24" Storm Drain Culvert Pipe	LF	320
35		5' x 5' Median Drop Inlet	EA	1
36		Precast Concrete Manhole (Type "E")	EA	1
37		24" Culvert Pipe End Section	EA	1
38		Wire Enclosed Riprap (Class A)	SY	110
39		Inlet / Outlet Structure	EA	2
40	SMA	Overflow Structure	EA	2
41	SMA	24" Ductile Iron Pipe (D.I.P.)	LF	437
42	SMA	20" Ductile Iron Pipe (D.I.P.)	LF	190
43	SMA	24" D.I. 90° Bend	EA	2
44	SMA	20" D.I. 90° Bend	EA	2
45	SMA	24" D.I. 45° Bend	EA	4
46	SMA	24" D.I. Restrained Mechanical Joint (RMJ)	EA	2
47	SMA	20" D.I. Restrained Mechanical Joint (RMJ)	EA	1
48	SMA	24" to 20" D.I. Reducer	EA	1
49	SMA	2" Still Pipe for Level Indicator	LF	60
50	SMA	Remove and Replace (Chain Link Fence around Vault)	LS	1
51	SMA	Chain Link Fence (around Tank Overflow Outlet)	LF	32
52	SMA	1" Dia Copper Tubing (Type "K")	LF	232
	SMA	Waterline Service Tap	EA	1
53	- CIVIA			
53		Water Meter Assembly CIP	□ ∧	1
53 54 55	SMA DOT-423	Water Meter Assembly CIP Pavement Patch of Trench	EA SY	77

Item #	Item Code	Description	Units	Project Quantities
	Valve Vau	lt Plumbing		
57	SMA	Remove and Salvage existing 8" Butterfly Valve	EA	1
58	SMA	Remove and Salvage existing 24" Butterfly Valve	EA	1
59	SMA	Remove existing 24" FCA with Restraining Rods	EA	1
60	SMA	Remove and Salvage existing Pipe Support	EA EA	1
61 62	SMA SMA	Remove existing Plumbing Stub-out through Wall Patch Concrete Wall & Cover with 60 mil Waterproofing	LS	1 1
63	SMA	8" D.I. Pipe	LF	28
64	SMA	24" D.I. Pipe	LF	12
65	SMA	24" x 24" x 8" D.I. MJ Tee	EA	2 2
66	SMA	24" x 24" x 6" D.I. MJ Tee	EA	1 1
67	SMA	24" x 24" x 24" D.I. MJ Tee	EA	سيب
68	SMA	24" D.I.P. Blind Flange	EA	1
69	SMA	8" D.I. 90° MJ Bend	EA	3
70	SMA	8" D.I. Butterfly Valve w/Electronic Actuator	EA	2
71	SMA	4" CLA-VAL Series 36 ARV or Series 38 VB/AR	EA	1
72	SMA	24" D.I. Butterfly Valve w/Electronic Actuator	EA	2
73	SMA	Pipe Supports	EA	4
74	SMA	Pipe Nipple for Pressure Transmitter	EA	2
	1	, pp		-
	Site Gradi	ng & Landscaping		
75	SMA	Final Site Grading	LS	1
76	SMA	Juniperus monosperma / One-seed Juniper	EA	33
77	SMA	Artemisia tridentata / Tall Western Sage	EA	18
78	SMA	Atriplex canescens / Four Wing Saltbrush	EA	9
79	SMA	Cercocarpus ledifolius / Curlleaf Mountain Mahogany	EA	8
80	SMA	Chamaebatiaria Millefolium / Fernbush	EA	12
81	SMA	Ericameria nauseosa spp. / Chamisa	EA	18
82	SMA	Fallugia paradoxa / Apache Plume	EA	12
83	SMA	Holodiscus dumosus / Rock Spirea	EA	10
84	SMA	Krasheninikovia lanata / Winterfat	EA	6
85	SMA	Rhus trilobata / Three-Leaf Sumac	EA EA	12
86	SMA	Ribes aureum / Yellow Flowering Currant	EA	8
87	SMA	Shepherdia argentea / Silver Buffaloberry	EA	6 7
88	SMA	Yucca baccata / Datil Yucca 2' x 3' x 2.5' Boulders	EA	_
89 90	SMA SMA	Irrigation Shut-off and Drain Valve	EA EA	52
90	SMA	FEBCO 860U 3/4" Reduced Pressure/ Backflow Assembly	EA	1
92	SMA	Controller, Rainbird ESP-4M and RSD Rain Sensor	EA	1 1
93	SMA	Control Valve, Rainbird LFV-100 & RBY100MPTX Filter	EA	3
94	SMA	3/4" PE Irrigation Tubing	LF	3,000
95	SMA	3" Sch. 40 PVC Sleeve (under Parking Lot)	LF	30
96	SMA	Rainbird XB-10C 1 GPH Emitter w/Stake and Bug Cap	EA	252
97	SMA	Rainbird PC-05 5 GPH Emitter w/Stake and Bug Cap	EA	99
		3 1		
		oad & Parking lot		
98		Curb Cut (or Remove and Replace with Laydown Curb)	LF	287
99	DOT-609		LF	125
100	DOT-608		SY	287 1
101		ADA Ramp (2 Ramps)	SY	1 6 2 5
102	DOT-203		CY	2,148
103	DOT-203	Fill	CY	2,138
104	DOT-207	6" Compacted Subgrade	SY	1,660
105	DOT-303	4" Base Course	CY	172
106	DOT-423	4" Hot Mix Asphalt SP-111	SY	432
107	DOT-570	36" CMP	LF	130
108	DOT-507	36" End Section	EA	2
109	DOT-603	1" - 3" Coarse Aggregate for Off-site Tracking Prevention	LS	1
110	DOT-607	14'-0" Tubular Ranch Gate	EA EA	2
111	SMA	12'-0" Road Closure Gate	EA EA	3
112	SMA	Relocation of Electrical Box	EA	1 50
113	DOT-607	Barbed Wire Fence	LF	50
114	SMA	DOT Access Permit	LS	1
115	DOT-606	W-Beam Guardrail	LF	255

	ltem #	Item Code	Description	Units	Project Quantities				
		Access Road Intersection Removal							
	116	DOT-618	Traffic Control	LS	1				
	117	DOT-601	Remove existing Curb & Gutter	LF	287				
	118	DOT-601	Remove existing Pavement	SY	260				
	119	DOT-601	Remove existing 5' Concrete Sidewalk	SY	287				
	120	DOT-609	Type B Barrier Curb	LF	287				
	121	DOT-608	5' Concrete Side Walk	SY	287				
	122	DOT-308	4" Base Course	CY	29				
	123	DOT-208	Re-grade Site	LS	1				
	124	DOT-632	Re-seeding	LS	1				
		Tank Cont	trols						
	125	SMA	Design and Build VCP & RTU	Allowance	1				
	126	SMA	SCADA, PLC Programming	Allowance	1				
	127	SMA	3/4" PVC coated RGC	LF	1,315				
	128	SMA	1" PVC coated RGC	LF	817				
	129	SMA	2" PVC coated RGC	LF	31				
	130	SMA	#12 XHHW-2	LF	756				
	131	SMA	#14 XHHW-2	LF	7,108				
	132	SMA	6 Fiber Cable	LF	1,360				
	133	SMA	Belden 9342	LF	1,800				
	134	SMA	Pull Box, SS NEMA 4	LF	4				
	135	SMA	Junction box, FS PVC Coated	EA	33				
	136	SMA	Connect Irrigation Control Panel	EA	1				
	137	SMA	20A 1p C/B in existing Panel	EA	4				
	138	SMA	Connect Instrument	EA	16				
	139	SMA	Connect Motorized Valve	EA	4				
	140	SMA	Terminate at VCP	EA	89				
	141	SMA	Trench and Backfill	LF	700				
L	142	SMA	Coredrill Valve Vault	EA	3				
	143	SMA	Patch	LS	3				
	144	SMA	Removals	LS	1				
H		Tools and	Spare Parts (as Defined in Exhibit VI of the RFB)						
	145	N/A	Tools	LS	1				
	146	N/A	Spare Parts	LS	1				

NOTES:

- ALL DOT ITEM CODES SHALL BE GOVERNED BY THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY & BRIDGE CONSTRUCTION, CURRENT EDITION.
- ALL SMA ITEM CODES SHALL BE GOVERNED BY SMA SPECIFICATIONS AS INCLUDED IN THE PROJECT MANUAL.

Souder, Miller & Associates



CITY OF SANTA FE WATER DIVISION
HOSPITAL TANK REPLACEMENT PROJECT
SUMMARY OF QUANTITIES



Date: 4/1/2016 Project No: 9223842

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